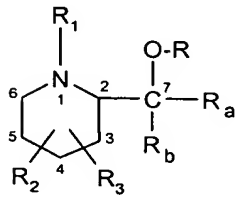
What is claimed is

1. A non-therapeutical process for deterring vermin from warm-blooded animals, whereby a compound of formula (I)



(I)

or one of its acid addition salts, wherein

R is hydrogen, C_1-C_{20}-alkyl or -C(O)-R_8; whereby R_8 is C_1-C_{20}-alkyl, C_1-C_{20}-alkoxy, unsubstituted phenyl or phenyl which is substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-haloalkoxy, halogen, cyano, hydroxyl, alkoxy, amino or nitro;

R_1 is hydrogen, C_1-C_{20}-alkyl, -C(O)-R_3, -C(S)-R_4, C(O)-O-R_5, -C(O)-NH-R_6 or -C(S)-NH-R_7; whereby R_3, R_4, R_5, R_6 and R_7, independently of one another, signify C_1-C_{10}-alkyl, acetoxy, C_1-C_{10}-haloalkyl, C_1-C_{10}-alkoxy or C_1-C_{10}-haloalkoxy, or independently of one another, denote unsubstituted phenyl or phenyl which is substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-haloalkoxy, halogen, cyano, hydroxyl, C_1-C_3-alkoxy, amino, CHO or nitro;

R_2 and R_3, independently of one another, are hydrogen, C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-haloalkoxy, halogen, cyano, hydroxyl, amino, aryl or nitro;

R_a denotes hydrogen, unsubstituted C_1-C_{20}-alkyl or C_1-C_{20}-alkyl which is substituted once or many times by halogen, cyano, hydroxyl, alkoxy, nitro, phenyl, biphenyl, benzyloxy or phenoxyphenyl, whereby each phenyl, biphenyl, benzyloxy or phenoxyphenyl in turn is unsubstituted or substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-haloalkoxy, C_1-C_3-alkoxy, halogen, cyano, hydroxyl, amino or nitro; or it denotes C_3-C_8-cycloalkyl, phenyl, biphenyl, phenoxyphenyl or heterocyclyl, whereby each of these cyclic radicals is unsubstituted or substituted once or many times by C_1-C_3-alkyl, C_2-C_6-alkenyl, C_1-C_3-haloalkyl, C_1-C_3-haloalkoxy, C_1-C_3-alkoxy, halogen, cyano, hydroxyl, amino, (C_1-C_3-alkyl)$_2$N, acetyl or nitro; or it denotes C_1-C_6-alkylene-aryl , whereby the aryl radical is unsubstituted or substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-haloalkoxy, halogen, cyano, hydroxyl or nitro; or it denotes C_1-C_{20}-alkyl which, depending on the number of carbon atoms, is interrupted by oxygen at one or several positions; and

R_b signifies hydrogen, C_1-C_{20}-alkyl, heterocyclyl or aryl, whereby each of the cyclic radicals is unsubstituted or substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-

haloalkoxy, C_2-C_6-alkenyl, halogen, cyano, hydroxyl, C_1-C_3-alkoxy, amino,$(C_1$-C_3-alkyl$)_2$N, or nitro; is applied topically, together with a spreading additive, to the skin, the pelt or the plumage of the warm-blooded animal.

2. Process according to claim 1, whereby a compound of formula (I) or one of its acid addition salts is applied, wherein

R is hydrogen or C_1-C_6alkyl;

R_1 is hydrogen, C_1-C_6-alkyl, -C(O)-R_3 or -C(S)-R_4; whereby R_3 and R_4 independently of one another, are C_1-C_3-alkyl, acetoxy, C_1-C_3-haloalkyl, or independently of one another, are unsubstituted phenyl or phenyl which is substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl or halogen;

R_2 and R_3 independently of one another, are hydrogen or C_1-C_3-alkyl;

R_a is hydrogen, C_5-C_{20}-alkyl, C_3-C_8-cycloalkyl or phenyl, whereby each of the cyclic radicals is unsubstituted or is substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-alkoxy, halogen, amino, $(C_1$-C_3-alkyl$)_2$N, or acetyl; and

R_b is hydrogen, unsubstituted phenyl or phenyl which is substituted once or many times by C_1-C_3-alkyl, C_1-C_3-haloalkyl, C_1-C_3-alkoxy, halogen, amino or $(C_1$-C_3-alkyl$)_2$N; including the acid addition salts thereof.

3. Process according to one of claims 1 or 2, whereby a compound of formula (I) or one of its acid addition salts is applied, wherein R is hydrogen and the remaining substituents are defined as under formula (I).

4. Process according to one of claims 1 to 3, whereby a compound of formula (I) or one of its acid addition salts is applied, wherein R_1 is -C(O)-R_3 , whereby R_3 represents unsubstituted phenyl or phenyl which is substituted once or many times by C_1-C_3-alkyl, especially methyl, ethyl or isopropyl, and the remaining substituents are defined as in formula (I).

5. Process according to one of claims 1 to 4, whereby a compound of formula (I) or one of its acid addition salts is applied, wherein R_2 and R_3 , independently of each other, are hydrogen or methyl and the remaining substituents are defined as under formula (I).

6. Process according to one of claims 1 to 5, whereby a compound of formula (I) or one of its acid addition salts is applied, wherein R_a is C_5-C_{20}-alkyl, benzoyloxymethyl, 2,3-dihydro-benzo(b)furryl-2, unsubstituted phenyl or phenyl which is substituted once or many times by C_1-C_3-alkyl, methoxy or chlorine.

7. Process according to one of claims 1 to 6, whereby a compound of formula (I) or one of its acid addition salts is applied, wherein R_a is a straight-chained C_7-C_{20}-alkyl.

8. Process according to claim 1, whereby the active ingredient employed is one of the following named substances or one of their acid addition salts.
2-[n-(1-hydroxyhexyl)]piperidine, 2-[n-(1-hydroxyheptyl)]piperidine, 2-[n-(1-hydroxyoctyl)]-piperidine, 2-[n-(1-hydroxynonyl)]piperidine, 2-[n-(1-hydroxydecyl)]piperidine, 2-[n-(1-hydroxyundecyl)]piperidine, 2-[n-(1-hydroxydodecyl)]piperidine, 2-[n-(1-hydroxytridecyl)]-piperidine, 2-[n-(1-hydroxytetradecyl)]piperidine, 2-[n-(1-hydroxypentadecyl)]piperidine, 2-[n-(1-hydroxyhexadecyl)]piperidine, 2-[n-(1-hydroxyheptadecyl)]piperidine, 2-[n-(1-hydroxy-octadecyl)]piperidine, 2-[n-(1-hydroxynonadecyl)]piperidine, 2-[n-(1-hydroxyeicosyl)]-piperidine, 2-[n-(1-hydroxyeneicosyl)]piperidine, 2-[(1-cyclopentyl)(1-hydroxy)methyl]-piperidine, 2-[(1-phenyl)(1-hydroxy)methyl]-4-tert.butyl-piperidine, 2-[(1-phenyl)(1-hydroxy)-methyl]piperidine, N-methyl-2-[(1-phenyl)(1-hydroxy)methyl]piperidine, 2-[(1-diphenyl)(1-hydroxy)methyl]piperidine, 2-[(1-phenyl)(1-[2,3-dihydrobenzo(b)furryl](1-hydroxy)-methyl]piperidine, N-methyl-2-[(1-[4- methylphenyl])(1-hydroxy)methyl]piperidine, 2-[(1-[4-methylphenyl])(1-hydroxy)methyl]piperidine, 2-[(1-[4-isopropylphenyl])(1-hydroxy)-methyl]piperidine, N-methyl-2-[(1-[4-isopropylphenyl])(1-hydroxy)methyl]piperidine, 2-[(1-[4-methoxyphenyl])(1-hydroxy)methyl]piperidine, 2-[(1-[benzyloxymethyl])(1-hydroxy)methyl]-piperidine, 2-[(1-thienyl)(1-hydroxy)methyl]piperidine, 6,6-dimethyl-2-[(1-[4-chlorphenyl])(1-hydroxy)methyl]piperidine, N-acetyl-2-[(1-hydroxy)(1-undecyl)]piperidine or N-ethoxy-carbonyl-2-[(1-hydroxy)(1-undecyl)]piperidine.

9. Process according to one of claims 1 to 8, whereby the compound of formula (I) is applied in the form of a pour-on or spot-on formulation.

10. Process for deterring vermin from places or materials where they are not wanted, whereby an effective amount of a compound of formula (I) according to one of claims 1 to 8 is applied to the place or to the material, at which one would like to deter the insect.

11. Composition for deterring vermin, whereby it contains a compound of formula (I) according to one of claims1 to 8 and a spreading additive.

12. Process for the preparation of a composition for deterring vermin, whereby a compound of formula (I) according to one of claims 1 to 8 is mixed with a spreading additive.

13. A compound of formula (I) selected from the group consisting of 2-[n-(1-hydroxyhexyl)]piperidine, 2-[n-(1-hydroxyheptyl)]piperidine, 2-[n-(1-hydroxyoctyl)]-piperidine, N-acetyl-2-[(1-hydroxy)(1-undecyl)]piperidine and N-ethoxycarbonyl-2-[(1-hydroxy)(1-undecyl)]piperidine.